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Jordan, David Starr, and James Zaccheus Gilbert. FOSSIL FISHES OF SOUTHERN CALIFORNIA. II. FOSSIL FISHES OF THE MIOCENE (MONTEREY) FORMATIONS. Leland Stanford Junior Univ. Public., Univ. Series, pp. 13-60, 1919. Delphinidæ, p. 60.

At the end of the second paper of this group, pp. 59 and 60, is an account, rather more than a page, descriptive of three slabs of stone which either contain impressions (matrices) of cetacean vertebræ, or the fossils themselves. They are all somewhat dubiously referred to *Delphinus occiduus* of Leidy which is in the same manner transferred to *Phocaena*. It seems unfortunate that such slight and uncertain evidence should result in a generic change for Leidy's type, which is undoubtedly not congeneric with either of the names that have been used. The specimens are from San Pedro and Lompoc, Los Angeles and Santa Barbara Counties, in diatomaceous shales and of uncertain Miocene age. The essential synonymy of *Delphinus occiduus* Leidy, the type of which is in the Museum of Comparative Zoölogy, Harvard University, is as follows:

Delphinus occiduus LEIDY, Proc. Acad. Nat. Sci. Phila. 1868, 197 (type locality Half-moon Bay, Calif.); Jour. Acad. Nat. Sci. Phila. 1869, 431; COPE, Am. Nat., 1890, 616; TROUESSART, Cat. Mam., 1898, 1031; HAY, Bull. U. S. Geol. Survey, 179, Fossil Vert. N. Am., 1901, 594; EASTMAN, Bull. Mus. Comp. Zool., 1907, 93-94, plate 4, fig. 1 (type).

Phocaena occiduus, JORDAN AND GILBERT, Leland Stanford Junior Univ. Public., Univ. Series, Fossil Fishes of Southern California, 1919, II, pp. 59, 60, plate IX, fig. 2; plate XXVIII, figs. 1, 3.

—William Palmer.

- ALLEN, A. A. A Christmas walk with birds and beasts. Amer. Forestry, vol. 25, pp. 1526-1530, 12 figs., December, 1919. (Popular account of tracks of common eastern mammals.)
- ALLEN, J. A. Severtzow's classification of the Felidæ. Bull. Amer. Mus. Nat. Hist., vol. 41, pp. 335-340. September 22, 1919. (Discussion of status and type-species of the 27 subgeneric names applied to cats by Severtzow, 1857-1858; and comparison with Pocock's "Classification of Existing Felidæ," 1917.)
- ALLEN, J. A. Notes on the synonymy and nomenclature of the smaller spotted cats of tropical America. Bull. Amer. Mus. Nat. Hist., vol. 41, pp. 341-419; figs. 1-31. October 3, 1919. (The following genera are recognized for Neotropical cats, excepting jaguars and pumas: *Leopardus* Gray, type *pardalis*; *Margay* Gray, type *wiedii*; *Oncilla*, new, type *oncilla*; *Noctifelis* Severtzow, type *guigna*; *Oncifelis* Severtzow, type *geoffroyi*; *Lynchailurus* Severtzow, type *pajeros*; *Herpailurus* Severtzow, type *yaguarondi*. These include 37 forms.)
- ANDERSON, RUDOLPH MARTIN. Addition to list of mammals of Jasper Park, Alberta. Canadian Alpine Journ., vol. 10, p. 69. 1919. (*Mustela rixosa* taken on Miette River, July 11, 1898.)
- BEEBE, WILLIAM. Higher vertebrates of British Guiana. With special reference to the fauna of Bartica District. Zoologica, vol. 2, no. 7, pp. 205-227, May, 1919. (Contains a preliminary checklist of mammals, including 119 forms.)

- CABRERA, ANGEL. Genera mammalium. Monotremata, Marsupialia. Museo Nacional de Ciencias Naturales, Madrid. Pp. 1-180; 19 plates. June 23, 1919. (Keys to the families and genera, and lists of the species and subspecies of monotremes and marsupials, with geographical distribution. New generic names are *Minuania*, type *Didelphis dimidiana* Wagner; *Holothylax*, type *Didelphis opossum* Linné; and *Amperta*, type *Chatocercus cristicauda* Krefft.)
- CADWALADER, WILLIAMS B. Report of the board of directors. Forty-seventh Ann. Rep. Zool. Soc. Philadelphia, pp. 1-18. 1919. (Mammals exhibited in the Philadelphia gardens for the first time include the Sumatra tiger, Texas fox squirrel, Sumatra elephant, and Kashmir deer.)
- CLARKE, JOHN M. An elephant with four tusks. *Science*, n. s., vol. 50, pp. 395-396, 1 fig. October 24, 1919.
- DE ONG, E. RALPH. Parasites which affect the food value of rabbits. *California Fish and Game*, vol. 5, no. 3, pp. 142, 143. July, 1919. (Relates particularly to wild rabbits of California.)
- DIXON, JOSEPH. Notes on the natural history of the bushy-tailed wood rats of California. Univ. California Pub. Zool., vol. 21, pp. 49-74, plates 1-3. December 10, 1919. (General account of *Neotoma cinerea cinerea* and *N. c. occidentalis*. The supposedly extinct species, *Teonoma spelaea* Sinclair, is considered inseparable from *N. c. occidentalis*.)
- EVERMANN, BARTON WARREN. The northern fur-seal problem as a type of many problems in marine zoology. *Sci. Monthly*, vol. 9 (Sept.), pp. 263-282, 10 figs. August 30, 1919. (Brief history of the Pribilof seal herds, from the discovery of the islands in 1786 down to the present time.)
- FERRIS, G. F. Anoplura of the Canadian arctic expedition, 1913-1918. Rep. Canadian Arctic Exped. 1913-1918, vol. 3, part D, p. 11d. September 12, 1919. (Report on lice collected by Frits Johansen and A. Castel on arctic mammals.)
- GRINNELL, JOSEPH. Four new kangaroo rats from west-central California. Proc. Biol. Soc. Washington, vol. 32, pp. 203-205. December 31, 1919. (The genera *Perodipus* and *Dipodomys* are combined, and new forms are described as follows: *Dipodomys jolonensis* and *D. sanctiluciae* from Jolon, Monterey County; *D. berkeleyensis* from Berkeley; and *D. californicus eximius* from Sutter County.)
- GRINNELL, JOSEPH. See also Hall, Harvey Monroe, and Joseph Grinnell.
- GYLDENSTOLPE, NILS. A list of the mammals at present known to inhabit Siam. Journ. Nat. Hist. Soc. Siam, vol. 3, pp. 127-175. August 1, 1919. (304 forms are listed, with original references and notes on occurrence. The publication of such papers should be greatly encouraged.)
- HALL, HARVEY MONROE, AND JOSEPH GRINNELL. Life-zone indicators in California. Proc. California Acad. Sci., 4 ser., vol. 9, pp. 37-67. June 16, 1919. (Lists the plants and vertebrate animals used in determining the various life-zones of the state.)
- HAMLIN, JOHN D. The Okapi. Hamlyn's Menagerie Mag., vol. 5, no. 4, pp. 25-27. August, 1919. (Account of the living specimen received at the Antwerp zoological gardens, August 9, 1919. This animal died on September 29, according to a later note in the October Hamlyn's Magazine.)

- HAMLIN, JOHN D. Fate of the Addo elephants. Hamlyn's Menagerie Mag., vol. 5, no. 4, pp. 28-30. August, 1919. (Tells of plans being made for the extermination of the last remaining herd of South African elephants, 150 to 200 in number. The October number of Hamlyn's Magazine gives further details of methods used in the killing of these animals.)
- HAMLIN, JOHN D. The Addo Bush elephants. Hamlyn's Menagerie Mag., vol. 5, no. 7, pp. 51-55, figs. 1-4. November, 1919. (Protests against the extermination of this last herd of South African elephants.)
- HARMER, S. F. Subantarctic whales and whaling. Abstract, Weekly Evening Meeting (May 16, 1919), Roy. Inst. Great Britain, pp. 1-5. 1919.
- HINTON, MARTIN A. C. Notes on the genus *Cricetomys*, with descriptions of four new forms. Ann. and Mag. Nat. Hist., ser. 9, vol. 4, pp. 282-289. October, 1919. (*C. gambianus* of authors said to include at least four good species; new forms described from Sudan, Belgian Congo, Zanzibar, and Nigeria.)
- HOLLISTER, N. Report on the National Zoological Park. Appendix, Rep. Secy. Smithsonian Inst., 1919, pp. 68-81. December, 1919. (On June 30, 1919, the collection contained 528 mammals, of 156 species. Among the more unusual species for zoological park collections are the Apache grizzly, glacier bear, brown hyena, African cheetah, Rocky Mountain and Arizona mountain sheep, African and Sumatran elephants.)
- HORNADAY, W. T. Rational use of game animals. Reprinted from Wild Life; its Conservation and Protection, of the Commission of Conservation, Canada, pp. 1-11. 1919. (On the necessity for protection of game in the north, with special reference to the great game of Alaska; with suggestions for legislation.)
- HOWELL, A. BRAZIER. A new cotton rat from Arizona. Proc. Biol. Soc. Washington, vol. 32, pp. 161-162. September 30, 1919. (Describes *Sigmodon hispidus cienegæ* from Pima County.)
- KLOSS, C. BODEN. See Robinson, Herbert C., and C. Boden Kloss.
- KOLLMANN, MAX. Sur la présence de l'os planum chez les Lémurines. Bull. Mus d'Hist. nat., 1919, no. 5, pp. 1-3. 1919.
- LOMEN, CARL J. The camel of the frozen desert. Nat. Geog. Mag., vol. 36, pp. 539-556, with 19 illustrations. December, 1919. (An account of the introduced reindeer in Alaska. The selection of such a misleading and inappropriate title for this article is unfortunate.)
- LÖNNBERG, EINAR. Remarks on some South American Canidæ. Arkiv för Zoologi, vol. 12, no. 13, pp. 1-18; figs. 1-4. 1919. (On the affinities of *Pseudalopex lycoides* Philippi and the dog of the Yaghan Indians, Tierra del Fuego.)
- LORD, CLIVE E. See Scott, H. H., and Clive E. Lord.
- MILLER, GERRIT S., JR. Bibliography, 1888-1918. Report VII of the Class of Harvard 1894, pp. 588-599. 1919. (Complete list of published papers, the majority of which relate to mammals.)
- MILLS, ENOS A. The grizzly, our greatest wild animal. 289 pp., 10 plates. Houghton, Mifflin and Co., Boston and N. Y., the Riverside Press, Cambridge. September, 1919.
- NELSON, E. W. Report of chief of Bureau of Biological Survey. Pp. 1-24. November, 1919. (For year ending June 30, 1919. The federal big game reservations in charge of the bureau contained on this date 368 bison, 274 elk, 54 antelopes, and 21 deer.)

- OSBORN, HENRY FAIRFIELD. The Congo expedition of the American Museum of Natural History. Introduction. Bull. Amer. Mus. Nat. Hist., vol. 39, pp. xv-xxvii. August 1, 1919. (An account of the expedition, its routes, and a summary of the collections made, together with a most excellent map showing the localities visited.)
- POCOCK, R. I. The classification of the mongooses (Mungotidæ). Ann. and Mag. Nat. Hist., ser. 9, vol. 3, pp. 515-524. June, 1919. (The family Mungotidæ is formally recognized and a key to its subfamilies and genera is given.)
- ROBINSON, HERBERT C., AND C. BODEN KLOSS. On five new mammals from Java. Ann. and Mag. Nat. Hist., ser. 9, vol. 4, pp. 374-378. December, 1919. (New forms of *Pithecus* [*Pygathrix* of recent authors], *Rattus*, and *Mycteromys*.)
- ROYAL ZOOLOGICAL AND ACCLIMATISATION SOCIETY OF VICTORIA. Fifty-fifth annual report and report of the annual meeting of the society, for the year 1918. Melbourne, 1919. (List of animals living in the gardens. An orang-utan has now been in the Melbourne collection for fifteen years, and is probably eighteen years old.)
- SCOTT, H. H., AND CLIVE E. LORD. Studies of Tasmanian Cetacea. Part II. Royal Soc. Tasmania, Pap. and Proc., 1919, pp. 23-32, 1 plate. July 24, 1919.
- SHUFELDT, R. W. The racoons of North America. Amer. Forestry, vol. 25, pp. 1531-1536, 5 figs. December, 1919. (Popular account of raccoons and their allies.)
- SPREADBOROUGH, WILLIAM. Notes on some of the more common animals and birds of the Canadian Rockies. Canadian Alpine Journ., vol. 10, pp. 51-68. 1919. (Interesting field notes on bears, marmots, ground-squirrels, pikas, wood rats, chipmunks, and squirrels.)
- SWARTH, HARRY S. Some Sierran chipmunks. With notes on photography of small mammals by Joseph Dixon. Sierra Club Bull., vol. 10, pp. 401-413, 3 plates. 1919.
- TAYLOR, WALTER P. Suggestions for field studies of mammalian life-histories. U. S. Dept. Agric., Dept. Circ., 59, pp. 1-8. September, 1919. (Mailed to all members of the American Society of Mammalogists.)
- TAYLOR, WALTER P. A new pocket gopher from western Washington. Proc. Biol. Soc. Washington, vol. 32, pp. 169-171. September 30, 1919. (Describes *Thomomys douglasii tacomensis* from Pierce County.)
- THOMAS, OLDFIELD. Two new gerbils from Sinai. Ann. and Mag. Nat. Hist., ser. 9, vol. 3, pp. 559-560. June, 1919. (Describes *Gerbillus floweri* and *G. bonhotiei*.)
- THOMAS, OLDFIELD. The method of taking the incisive index in rodents. Ann. and Mag. Nat. Hist., ser. 9, vol. 4, pp. 289-290, with one figure. October, 1919.
- THOMAS, OLDFIELD. The types of the mammals described by M. Fernand Lataste. Ann. and Mag. Nat. Hist., ser. 9, vol. 4, pp. 350-354. November, 1919. (Lataste collection now in British Museum, and types and lectotypes are here listed.)
- WEIDMAN, FRED D. Report of the laboratory of comparative pathology. Forty-seventh Ann. Rep. Zool. Soc. Philadelphia, pp. 18-25. 1919. (Data on autopsies held at the Philadelphia zoological gardens.)
- WHITING, P. W. Inheritance of white-spotting and other color characters in cats. Amer. Nat., vol. 53, pp. 473-482. November, 1919.